



Cold Climate Housing Research Center

CCHRC

PROGRESS REPORT

GRANT NUMBER: 7310026

COLD CLIMATE HEAT PUMP DEMONSTRATION

COLD CLIMATE HOUSING RESEARCH CENTER

7/1/2014 – 9/30/2014

Deliverables Submitted

No reports were submitted this quarter.

Budget

Amount Invoiced: \$437.58

Schedule Status

We are on schedule. The project switched over to the monitoring phase for year 2 in September 2014.

Percent Complete

	Start Date	End Date	Percent Complete
Thermal Response Test	Sep-12	Oct-12	100%
Heat pump system design	Nov-12	Mar-13	100%
Update monitoring plan	Nov-12	Mar-13	100%
Ground loop installation	Jun-13	Jul-13	100%
Heat pump installation	May-13	Nov-13	100%
Data acquisition system installation	Jun-13	Dec-13	100%
Commissioning	Sep-13	Jan-14	100%
System monitoring and maintenance Year 1	Sep-13	Sep-14	100%
System monitoring and maintenance Year 2	Sep-14	Sep-15	N/A
System monitoring and maintenance Year 3	Sep-15	Mar-16	N/A
Data analysis, LCCA, and draft report completion	Apr-16	Jun-16	10%
Final project report	Jul-16	Jul-16	N/A

Work Progress

The heat pump and data collection system have been commissioned. The systems are running and will continue their operation with minimal management for 2 more years. The project has a website, <http://www.cchrc.org/ground-source-heat-pump-demonstration-cchrc>. CCHRC presented a paper on the development of the project at the ASHRAE annual conference in Seattle in June. The paper and presentation are included with this report.

Future Work

Monitoring the heat pump will involve occasional data verification over the next 2 and a half years. A maintenance log will also be kept in detail.